## CLAIMS

What is claimed is:

1. A method for integrating time division duplex (TDD) and frequency division duplex (FDD) in wireless communication systems, the method comprising the steps of:

receiving radio access bearer (RAB) requests along with a plurality of parameters regarding the request;

estimating a degree of symmetry in uplink (UL) and downlink (DL) connections required to support communication associated with the RAB requests;

selecting either a TDD or FDD connection based on the estimated symmetry of the UL and DL connections.

- 2. The method of claim 1 wherein TDD connection is selected for RAB requests having data rates above a predetermined threshold.
- 3. The method of claim 1 wherein FDD connection is selected for RAB requests associated with voice applications.
- 4. The method of claim 1 further comprising:
  evaluating a symmetry status of the UL and DL connections periodically once an
  initial connection has been established in response to a RAB request; and
  switching between TDD and FDD modes based on said symmetry status.
- 5. The method of claim 1 wherein all RAB requests are processed through a FDD RNC.
- 6. The method of claim 5 wherein only the FDD RNC is connected to a core network through an Iu interface, and the TDD RNC is indirectly connected to the core network through the FDD RNC.

- 7. The method of claim 6 wherein the FDD RNC performs all call connections and disconnections.
- 8. A system for integrating TDD and FDD in a communication system, the system comprising:
  - a core network (CN);
  - a time division duplex radio network controller (TDD RNC);
  - a frequency division duplex radio network controller (FDD RNC); and,
- a TDD-FDD selector for receiving a RAB request and estimating symmetry status of uplink (UL) and downlink (DL) connections that is required to support the RAB assignment request, and making a decision to assign radio resources in either TDD mode or FDD mode based on the estimated symmetry status.
- 9. The system of claim 8 wherein a TDD connection is selected for RAB requests having data rates above a predetermined threshold.
- 10. The system of claim 8 wherein a FDD connection is selected for RAB requests associated with voice applications.
- 11. The system of claim 8 wherein the TDD RNC, the FDD RNC, and the TDD-FDD selector are integrated into an integrated TDD/FDD RNC.
- 12. The system of claim 8 wherein the FDD RNC includes a TDD serving radio network controller (S-RNC) and is configured to support TDD Iur protocols.
- 13. The system of claim 12 wherein only the CN and the FDD RNC are connected via an Iu interface and RAB requests are processed through the FDD RNC.